

## Customer Part:



## Description

- Surface mount temperature compensated voltage controlled oscillator (VCTCXO) providing a high degree of frequency stability over a wide temperature range in a hermetically sealed ceramic package
- Model CFPT-125
- Model Issue number 11

## Frequency Parameters

- Frequency 32.7680MHz
- Frequency Stability  $\pm 0.90\text{ppm}$
- Operating Temperature Range -20.00 to 70.00°C
- Ageing  $\pm 1\text{ppm}$  typical in 1st year @25°C



## Electrical Parameters

- Supply Voltage 3.3V  $\pm 5\%$
- Current Draw 3.000mA
- Supply current typical at 20MHz
- Supply Voltage Variation <30MHz  $\pm 0.3\text{ppm}$   
30MHz to <40MHz  $\pm 0.4\text{ppm}$   
40MHz  $\pm 0.5\text{ppm}$
- Load Variation:  $\pm 0.2\text{ppm}$  (@15pF  $\pm 10\%$ )  
After Reflow:  $\pm 1.0\text{ppm}$

## Frequency Adjustment

- Pulling  $\pm 5\text{ppm}$  min
- Control Voltage 1.65V  $\pm 1.0\text{V}$

## Output Details

- Output Compatibility HCMOS
- Drive Capability 15pF (nominal)
- Rise and Fall Time 8.0ns max
- Duty Cycle 45/55%

## Environmental Parameters

- Shock: IEC 60068-2-27, Test Ea: 980m/s<sup>2</sup> acceleration for 6ms, 3 shocks in each of 3 mutually perpendicular planes
- Vibration: IEC 60068-2-6, Test Fc, Procedure B4: 10Hz-60Hz 1.5mm displacement, 60-2000Hz at 98.1m/s<sup>2</sup>, 30mins in 3 mutually perpendicular planes at 1 oct/min
- Solderability: MIL-STD-202, Method 208, Category 3
- Storage Temperature Range: -55 to 125°C

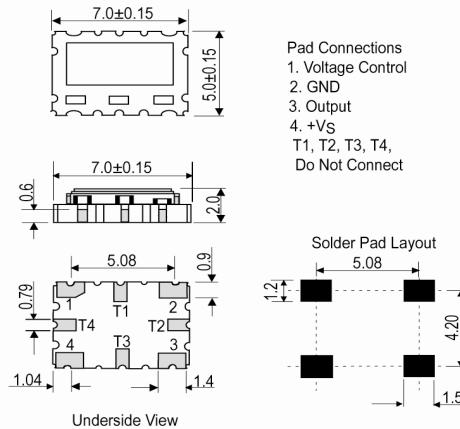
## Manufacturing Details

- Soldering: Suitable for Convection Reflow soldering. Peak temperature 260°C for 10sec max
- Washing: Able to withstand aqueous washing
- RoHS Terminations NiCoAu
- RoHS Reflow Temp 260degC 30s

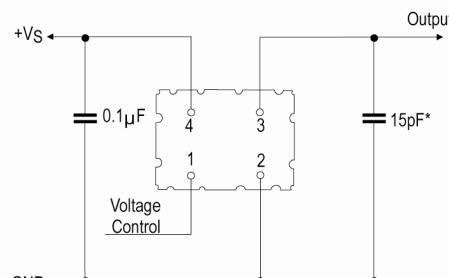
## Compliance

- RoHS Status (2015/863/EU) Compliant
- REACH Status Compliant
- MSL Rating (JDEC-STD-033): 1

## Outline (mm)



## Test Circuit



\* Inclusive of probe and jig capacitance

## Sales Office Contact Details:

UK: +44 (0)1460 270200

Email: info@iqdfrequencyproducts.com

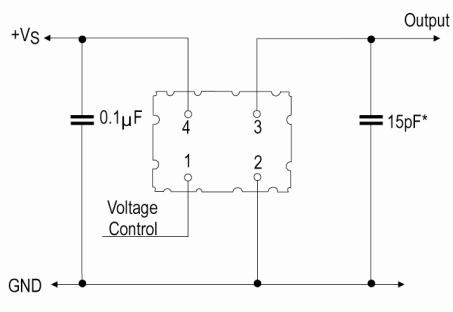
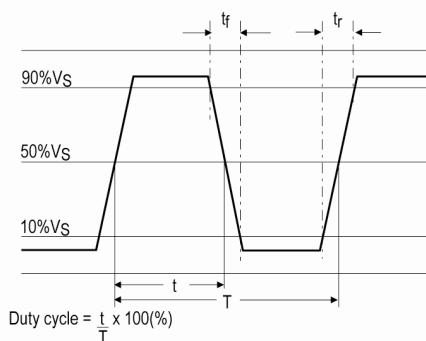
Web: www.iqdfrequencyproducts.com

**Customer Part:****Packaging Details**

- Tape & reel in accordance with EIA-481

Quantities below the standard reel size to be supplied on  
cut tape

Standard Pack Quantity: 1,000

**Test Circuit****Wave Form****Sales Office Contact Details:**

UK: +44 (0)1460 270200

Email: [info@iqdfrequencyproducts.com](mailto:info@iqdfrequencyproducts.com)Web: [www.iqdfrequencyproducts.com](http://www.iqdfrequencyproducts.com)